Assignment-2

Python Programming

Assignment Date	21 september 2022
Student Name	Mr.Gajendran S
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Maximum Marks	2 Marks

Question-1:

build a python code ,assume u get temperature and humidity values (generated with random function to a variable) & write a condition to continuously detect alarm in case of high temperature

Solution:

```
import time

import board

import adafruit_dht

import psutil


# We first check if a Libgpiod process is running.If yes, we kill it!

for proc in psutil.process_iter():

    if proc.name() == 'libgpiod_pulsein' or proc.name() == 'libgpiod_pilsei':

        proc.kill()


sensor = adafruit_dht.DHT11(board.D23)


while True:

    try:

        temp = sensor.temperature
```

```python
        humidity = sensor.humidity
        print("Temperature: {}*c  Humidity: {}%".format(temp, humidity))
    except RuntimeError as error:
        print(error.args[0])
        time.sleep(2.0)
        continue
    except Exception as error:
        sensor.exit()
        raise error

    time.sleep(2.0)
```